

CONTENTS

CONTRIBUTORS	v
DEDICATION	vii

The Avian Sarcoma-Leukosis Complex; Its Biology and Ultrastructure

FRANÇOISE HAGUENAU and J. W. BEARD

I. Introduction	1
II. The Rous Sarcoma	3
III. Myeloblastosis and Erythroblastosis	29
IV. Comment	48
References	50

Infectious Papillomatosis of Rabbits (Shope); Biology and Ultrastructure

KARL-HERMANN HOLLMANN

I. Introduction	61
II. Incidence and Transmission	62
III. Histology	64
IV. Factors Influencing the Growth	64
V. Serology	65
VI. Problem of Masking and the Role of the Virus in the Papilloma-Derived Carcinoma	67
VII. Purification, Titration, and Physical Properties of the Papilloma Virus	68
References	75

The Shope Fibroma Virus of Rabbits

H. FEBVRE

I. Introduction	79
II. Clinical and Pathological Description of the Disease	81
III. The Fibroma Virus	86
IV. Multiplication Cycle of the Virus	95
V. Reactivation Phenomenon between Fibroma and Myxoma Viruses	103
VI. Conclusion	106
References	106

The Milk Agent

DAN H. MOORE

I. Introduction	113
II. Measurements on the Size of the Milk Agent by Filtration, Ionizing Radiation and Diffusion	116
III. Discussion of Bioassays and Morphological Findings	121
IV. Tissue Culture of Mouse Mammary Tissue	136
V. Quantitative Variation in the Abundance of Characteristic Particles in Different Strains of Mice	140
VI. Purification of the Characteristic Particles	142
VII. Absence of Particles in Organs of Tumor-Bearing Mice	144
VIII. Human Mammary Carcinoma	145
IX. Summary	145
References	146

Electron Microscopy of Polyoma Virus: A Review

ROBERT R. DOORMASHKIN

I. Introduction	151
II. Types of Particles Associated with Polyoma Virus	152
III. Studies of Polyoma Virus in Cell Culture	164
IV. The Ultrastructure of the Type D Particle	170
V. Particles Found in Mouse Tumors Induced by Polyoma Virus Preparations	175
VI. Particles Associated with Polyoma Virus in Inoculated Hamsters	179
References	181

Ultrastructural Studies on Three Different Types of Mouse Leukemia; A Review

ETIENNE DE HARVEN

I. Introduction	183
II. The Gross Leukemia	183
III. The Friend Leukemia	187
IV. Transplantable Lymphomas of Swiss Mice	194
V. Discussion	198
VI. Summary	204
References	205

The Moloney Agent

ALBERT J. DALTON

I. Introduction	207
II. Preparation of Sections	207
III. Electron Microscope Observations	208
IV. Comparison of the Moloney Leukemia and the Gross and Friend Leukemias	214
V. Summary	217
References	217
 AUTHOR INDEX	 219
SUBJECT INDEX	225